

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> DECLARE

```
2 V_Deptno Dept.Deptno%TYPE := &GDeptno;
3 V_Dname Dept.Dname%TYPE := UPPER('&GDname');
4 V_Loc Dept.Loc%TYPE := UPPER('&GLoc');
5 BEGIN
6 INSERT INTO Dept
7 VALUES(V_Deptno, V_Dname, V_Loc);
8 EXCEPTION
9 WHEN DUP_VAL_ON_INDEX THEN
10 DBMS_OUTPUT.PUT_LINE('Sorry Department Number Cannot be
Duplicated');
11 END;
12 /
```

Enter value for gdeptno: 40

Enter value for gdname: SHIPPING

Enter value for gloc: CHENNAI

Sorry Department Number Cannot be Duplicated

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Deptno Dept.Deptno%TYPE := &GDeptno;
3 V_Dname Dept.Dname%TYPE := UPPER('&GDname');
4 V_Loc Dept.Loc%TYPE := UPPER('&GLoc');
5 E_DataExists EXCEPTION;
6 PRAGMA EXCEPTION_INIT(E_DataExists, -1);
7 BEGIN
8 INSERT INTO Dept
9 VALUES(V_Deptno, V_Dname, V_Loc);
10 EXCEPTION
11 WHEN E_DataExists THEN
12 DBMS_OUTPUT.PUT_LINE('Sorry Department Number Cannot be
Duplicated');
13* END;
```

SQL>

Enter value for gdeptno: 40

Enter value for gdname: SHIPPING

Enter value for gloc: CHENNAI

Sorry Department Number Cannot be Duplicated

PL/SQL procedure successfully completed.

SQL> ED

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Wrote file afiedt.buf

```
1  DECLARE
2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
3  V_Dname Dept.Dname%TYPE := UPPER('&GDname');
4  V_Loc Dept.Loc%TYPE := UPPER('&GLoc');
5  --E_DataExists EXCEPTION;
6  --PRAGMA EXCEPTION_INIT(E_DataExists, -1);
7  BEGIN
8  SELECT
9  Deptno, Dname, Loc INTO V_Deptno, V_Dname, V_Loc
10 FROM Dept
11 WHERE Deptno = V_Deptno;
12 EXCEPTION
13 WHEN NO_DATA_FOUND THEN
14 DBMS_OUTPUT.PUT_LINE('Sorry Data Not Found');
15* END;
SQL> /
Enter value for gdeptno:
Enter value for gdname:
Enter value for gloc:
V_Deptno Dept.Deptno%TYPE := ;
*
```

ERROR at line 2:
ORA-06550: line 2, column 30:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
(- + case mod new not null <an identifier>
<a double-quoted delimited identifier> <a bind variable> avg
count current exists max min prior sql stddev sum variance
execute forall merge time timestamp interval date
<a string literal with character set specification>
<a number> <a single-quoted SQL string> pipe
<an alternatively-quoted string literal with character set specification>
<an alternatively-quoted S

SQL> ED
Wrote file afiedt.buf

```
1  DECLARE
2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
3  V_Dname Dept.Dname%TYPE;
4  V_Loc Dept.Loc%TYPE;
5  --E_DataExists EXCEPTION;
6  --PRAGMA EXCEPTION_INIT(E_DataExists, -1);
7  BEGIN
8  SELECT
```

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```
9 Deptno, Dname, Loc INTO V_Deptno, V_Dname, V_Loc
10 FROM Dept
11 WHERE Deptno = V_Deptno;
12 EXCEPTION
13 WHEN NO_DATA_FOUND THEN
14 DBMS_OUTPUT.PUT_LINE('Sorry Data Not Found');
15* END;
```

SQL> /

Enter value for gdeptno: 30

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Deptno Dept.Deptno%TYPE := &GDeptno;
3 V_Dname Dept.Dname%TYPE;
4 V_Loc Dept.Loc%TYPE;
5 --E_DataExists EXCEPTION;
6 --PRAGMA EXCEPTION_INIT(E_DataExists, -1);
7 BEGIN
8 SELECT
9 Deptno, Dname, Loc INTO V_Deptno, V_Dname, V_Loc
10 FROM Dept
11 WHERE Deptno = V_Deptno;
12 DBMS_OUTPUT.PUT_LINE('The Data is : '||V_Deptno||', '||V_Dname||',
13 '||V_Loc);
13 EXCEPTION
14 WHEN NO_DATA_FOUND THEN
15 DBMS_OUTPUT.PUT_LINE('Sorry Data Not Found');
16* END;
```

SQL> /

Enter value for gdeptno: 40

The Data is : 40, OPERATIONS, BOSTON

PL/SQL procedure successfully completed.

SQL> /

Enter value for gdeptno: 60

Sorry Data Not Found

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
```

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```
2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
3  V_Dname Dept.Dname%TYPE;
4  V_Loc Dept.Loc%TYPE;
5  E_DataNotExists EXCEPTION;
6  PRAGMA EXCEPTION_INIT(E_DataNotExists, -1403);
7  BEGIN
8  SELECT
9  Deptno, Dname, Loc INTO V_Deptno, V_Dname, V_Loc
10 FROM Dept
11 WHERE Deptno = V_Deptno;
12 DBMS_OUTPUT.PUT_LINE('The Data is : '||V_Deptno||', '||V_Dname||',
'||V_Loc);
13 EXCEPTION
14 WHEN E_DataNotExists THEN
15 DBMS_OUTPUT.PUT_LINE('Sorry Data Not Found');
16* END;
SQL> /
Enter value for gdeptno: 40
E_DataNotExists EXCEPTION;
*
ERROR at line 5:
ORA-06550: line 5, column 1:
PLS-00701: illegal ORACLE error number -1403 for PRAGMA EXCEPTION_INIT
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
3  V_Dname Dept.Dname%TYPE;
4  V_Loc Dept.Loc%TYPE;
5  E_DataNotExists EXCEPTION;
6  PRAGMA EXCEPTION_INIT(E_DataNotExists, +100);
7  BEGIN
8  SELECT
9  Deptno, Dname, Loc INTO V_Deptno, V_Dname, V_Loc
10 FROM Dept
11 WHERE Deptno = V_Deptno;
12 DBMS_OUTPUT.PUT_LINE('The Data is : '||V_Deptno||', '||V_Dname||',
'||V_Loc);
13 EXCEPTION
14 WHEN E_DataNotExists THEN
15 DBMS_OUTPUT.PUT_LINE('Sorry Data Not Found');
16* END;
SQL> /
Enter value for gdeptno: 40
The Data is : 40, OPERATIONS, BOSTON
```

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PL/SQL procedure successfully completed.

SQL> /

Enter value for gdeptno: 60

Sorry Data Not Found

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> DECLARE

2 V_ErrorCode NUMBER(6);

3 V_ErrorMessage VARCHAR2(200);

4 BEGIN

5 INSERT INTO Dept

6 VALUES(&DeptNumber, '&DeptName', '&DeptLocation');

7 EXCEPTION

8 WHEN OTHERS THEN

9 V_ErrorCode := SQLCODE;

10 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);

11 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);

12 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is :
'||V_ErrorMessage);

13 END;

14 /

Enter value for deptnumber: 50

Enter value for deptname: SHIPPING

Enter value for deptlocation: CHENNAI

PL/SQL procedure successfully completed.

SQL> /

Enter value for deptnumber: 40

Enter value for deptname: CARGO

Enter value for deptlocation: DELHI

The Error Code Traced is : -1

The Error Message Traced is : ORA-00001: unique constraint
(SCOTT.DEPT_PRIMARY_KEY) violated

PL/SQL procedure successfully completed.

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```
1  DECLARE
2  V_Deptno Dept.Deptno%TYPE := &DeptNumber;
3  V_Dname Dept.Dname%TYPE := '&DeptName';
4  V_Loc Dept.Loc%TYPE := '&DeptLocation';
5  V_ErrorCode NUMBER(6);
6  V_ErrorMessage VARCHAR2(200);
7  BEGIN
8  INSERT INTO Dept
9  VALUES (V_Deptno, V_Dname, V_Loc);
10 EXCEPTION
11 WHEN DUP_VAL_ON_INDEX THEN
12 DBMS_OUTPUT.PUT_LINE('Sorry! The Department Exists');
13 WHEN OTHERS THEN
14 V_ErrorCode := SQLCODE;
15 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);
16 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);
17 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is :
'||V_ErrorMessage);
18* END;
SQL> /
```

Enter value for deptnumber: 40

Enter value for deptname: SHIPPING

Enter value for deptlocation: CHENNAI

Sorry! The Department Exists

PL/SQL procedure successfully completed.

SQL> /

Enter value for deptnumber: NULL

Enter value for deptname: CARGO

Enter value for deptlocation: DELHI

The Error Code Traced is : -1400

The Error Message Traced is : ORA-01400: cannot insert NULL into
("SCOTT"."DEPT"."DEPTNO")

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Deptno Dept.Deptno%TYPE := &DeptNumber;
3  V_Dname Dept.Dname%TYPE := '&DeptName';
4  V_Loc Dept.Loc%TYPE := '&DeptLocation';
5  V_ErrorCode NUMBER(6);
```

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```
6  V_ErrorMessage VARCHAR2(200);
7  E_NullFound EXCEPTION;
8  PRAGMA EXCEPTION_INIT(E_NullFound , -1400);
9  BEGIN
10 INSERT INTO Dept
11 VALUES(V_Deptno, V_Dname, V_Loc);
12 EXCEPTION
13 WHEN DUP_VAL_ON_INDEX THEN
14 DBMS_OUTPUT.PUT_LINE('Sorry! The Department Exists');
15 WHEN E_NullFound THEN
16 DBMS_OUTPUT.PUT_LINE('Department Number Cannot Be NULL');
17 WHEN OTHERS THEN
18 V_ErrorCode := SQLCODE;
19 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);
20 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);
21 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is : '||V_ErrorMessage);
22* END;
SQL> /
Enter value for deptnumber: NULL
Enter value for deptname: CARGO
Enter value for deptlocation: DELHI
Department Number Cannot Be NULL
```

PL/SQL procedure successfully completed.

SQL> cl scr

```
SQL> DECLARE
2  V_Empno Emp.Empno%TYPE := &EmpNumber;
3  V_EName Emp.EName%TYPE;
4  V_Job Emp.Job%TYPE;
5  V_Sal Emp.Sal%TYPE;
6  V_ErrorCode NUMBER(6);
7  V_ErrorMessage VARCHAR2(200);
8  BEGIN
9  SELECT Ename, Job, Sal
10 INTO
11 V_EName, V_Job, V_Sal
12 FROM Emp
13 WHERE Empno = V_Empno;
14 DBMS_OUTPUT.PUT_LINE(V_EName||' '||V_Job||' '||V_Sal);
15 EXCEPTION
16 WHEN OTHERS THEN
17 V_ErrorCode := SQLCODE;
18 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);
19 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);
```

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```
20 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is :  
'||V_ErrorMessage);  
21 END;  
22 /
```

Enter value for empnumber: 7654

MARTIN SALESMAN 1250

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

```
SQL> DECLARE  
2 V_Empno Emp.Empno%TYPE := &EmpNumber;  
3 V_EName Emp.EName%TYPE;  
4 V_Job Emp.Job%TYPE;  
5 V_Sal Emp.Sal%TYPE;  
6 V_ErrorCode NUMBER(6);  
7 V_ErrorMessage VARCHAR2(200);  
8 BEGIN  
9 SELECT Ename, Job, Sal  
10 INTO  
11 V_EName, V_Job, V_Sal  
12 FROM Emp  
13 WHERE Empno = V_Empno;  
14 DBMS_OUTPUT.PUT_LINE(V_EName||'            '||V_Job||'            '||V_Sal);  
15 EXCEPTION  
16 WHEN OTHERS THEN  
17 V_ErrorCode := SQLCODE;  
18 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);  
19 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);  
20 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is :  
'||V_ErrorMessage);  
21 END;  
22 /
```

Enter value for empnumber: 2234

The Error Code Traced is : 100

The Error Message Traced is : ORA-01403: no data found

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE  
2 V_Empno Emp.Empno%TYPE := &EmpNumber;  
3 V_EName Emp.EName%TYPE;
```

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```
4  V_Job Emp.Job%TYPE;
5  V_Sal Emp.Sal%TYPE;
6  V_ErrorCode NUMBER(6);
7  V_ErrorMessage VARCHAR2(200);
8  BEGIN
9  SELECT Ename, Job, Sal
10 INTO
11 V_EName, V_Job, V_Sal
12 FROM Emp
13 WHERE Empno = V_Empno;
14 DBMS_OUTPUT.PUT_LINE(V_EName||'      '||V_Job||'      '||V_Sal);
15 EXCEPTION
16 WHEN OTHERS THEN
17 DBMS_OUTPUT.PUT_LINE('The Error Traced');
18* END;
```

SQL> /

Enter value for empnumber: 2234

The Error Traced

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> CREATE TABLE MyAudit

```
2  (
3  Username VARCHAR2(15),
4  ModDate DATE,
5  Message VARCHAR2(100)
6  )
7  /
```

Table created.

SQL> COL Username FORMAT A10

SQL> COL Message FORMAT A80

SQL> CREATE TABLE TrappedMessages

```
2  (
3  ErrorNum NUMBER(6),
4  ErrorMsg VARCHAR2(250),
5  TrapDate DATE
6  )
7  /
```

Table created.

SQL> COL ErrorMsg FORMAT A80

SQL> BEGIN

```
2  INSERT INTO Dept
```

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```
3  VALUES(&DeptNumber, '&DeptName', '&DeptLocation');
4  INSERT INTO MyAudit (UserName, ModDate)
5  VALUES (USER, SYSDATE);
6  EXCEPTION
7  WHEN OTHERS THEN
8  DECLARE
9  V_ErrorCode NUMBER(6);
10 V_ErrorMessage VARCHAR2(200);
11 BEGIN
12 V_ErrorCode := SQLCODE;
13 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);
14 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);
15 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is : '||V_ErrorMessage);
16 INSERT INTO TrappedMessages (ErrorNum, ErrorMsg, TrapDate)
17 VALUES (V_ErrorCode, V_ErrorMessage, SYSDATE);
18 END;
19 END;
20 /
```

Enter value for deptnumber: 50
Enter value for deptname: SHIPPING
Enter value for deptlocation: CHENNAI

PL/SQL procedure successfully completed.

SQL> SELECT * FROM MyAudit;

USERNAME	MODDATE
----------	---------

MESSAGE

SCOTT	21-NOV-14
-------	-----------

```
SQL> BEGIN
2  INSERT INTO Dept
3  VALUES (&DeptNumber, '&DeptName', '&DeptLocation');
4  INSERT INTO MyAudit (UserName, ModDate)
5  VALUES (USER, SYSDATE);
6  EXCEPTION
7  WHEN OTHERS THEN
8  DECLARE
9  V_ErrorCode NUMBER(6);
10 V_ErrorMessage VARCHAR2(200);
11 BEGIN
12 V_ErrorCode := SQLCODE;
```

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```
13 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);
14 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);
15 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is :
'||V_ErrorMessage);
16 INSERT INTO TrappedMessages(ErrorNum, ErrorMsg, TrapDate)
17 VALUES (V_ErrorCode, V_ErrorMessage, SYSDATE);
18 END;
19 END;
20 /
```

Enter value for deptnumber: 40

Enter value for deptname: COURIER

Enter value for deptlocation: DELHI

The Error Code Traced is : -1

The Error Message Traced is : ORA-00001: unique constraint
(SCOTT.DEPT_PRIMARY_KEY) violated

PL/SQL procedure successfully completed.

SQL> SELECT * FROM TrappedMessages;

ERRORNUM

ERRORMSG

TRAPDATE

-1
ORA-00001: unique constraint (SCOTT.DEPT_PRIMARY_KEY) violated
21-NOV-14

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Deptno Dept.Deptno%TYPE := &DeptNumber;
3 V_Dname Dept.Dname%TYPE := '&DeptName';
4 V_Loc Dept.Loc%TYPE := '&DeptLocation';
5 BEGIN
6 INSERT INTO Dept
7 VALUES (V_Deptno, V_Dname, V_Loc);
8 INSERT INTO MyAudit (UserName, ModDate)
9 VALUES (USER, SYSDATE);
10 EXCEPTION
11 WHEN DUP_VAL_ON_INDEX THEN
12 DBMS_OUTPUT.PUT_LINE('Department Number is Existing');
13 WHEN OTHERS THEN
```

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```
14 DECLARE
15 V_ErrorCode NUMBER(6);
16 V_ErrorMessage VARCHAR2(200);
17 BEGIN
18 V_ErrorCode := SQLCODE;
19 V_ErrorMessage := SUBSTR(SQLERRM, 1, 200);
20 DBMS_OUTPUT.PUT_LINE('The Error Code Traced is : '||V_ErrorCode);
21 DBMS_OUTPUT.PUT_LINE('The Error Message Traced is :
'||V_ErrorMessage);
22 INSERT INTO TrappedMessages(ErrorNum, ErrorMsg, TrapDate)
23 VALUES (V_ErrorCode, V_ErrorMessage, SYSDATE);
24 END;
25* END;
```

SQL> /

Enter value for deptnumber: 40
Enter value for deptname: CARGO
Enter value for deptlocation: DELHI
Department Number is Existing

PL/SQL procedure successfully completed.

SQL> /

Enter value for deptnumber: NULL
Enter value for deptname: CAOURIER
Enter value for deptlocation: DELHI
The Error Code Traced is : -1400
The Error Message Traced is : ORA-01400: cannot insert NULL into
("SCOTT"."DEPT"."DEPTNO")

PL/SQL procedure successfully completed.

SQL> SELECT * FROM TrappedMessages;

```
ERRORNUM
-----
ERRORMSG
-----
```

```
TRAPDATE
-----
```

```
1
ORA-00001: unique constraint (SCOTT.DEPT_PRIMARY_KEY) violated
21-NOV-14

-1400
ORA-01400: cannot insert NULL into ("SCOTT"."DEPT"."DEPTNO")
21-NOV-14
```

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ERRORNUM

ERRORMSG

TRAPDATE

SQL> SPOOL OFF

Oracle BY Sathish Yellanki (SkyEss)

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